

20040728.ba v03_n680.bam.20040728

>From ???@??? Wed Jul 28 17:57:54 2004 +0000
Message-Id: <200407282257.i6SMvYcc016826@sco.theporch.com>
Date: Wed, 28 Jul 2004 17:57:17 CDT
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 3680

BOATANCHORS Digest 3680

Topics covered in this issue include:

- 1) Modern tubes, old tube testers
by "Sifakis George (georgios.sifakis@intracom.gr)"
<georgios.sifakis@intracom.gr>
- 2) Re: "Festoon" lamps??
by Richard Loken <richardlo@admin.athabasca.ca>
- 3) Re: "Festoon" lamps??
by flasch@cushy.ece.northwestern.edu (Norm Flasch)
- 4) Re: "Festoon" lamps??
by "Arden Allen" <gumbear@pacbell.net>
- 5) Re: BBOD report
by "JAMES HANLON" <knjhanlon@msn.com>
- 6) Re: Voice, Range Both Filter Continued
by "JAMES HANLON" <knjhanlon@msn.com>
- 7) Re: BBOD report
by "Al Parker" <anchor@ec.rr.com>
- 8) Re: BBOD report
by Al Klase <skywaves@webex.net>
- 9) Re: BBOD report
by Chuck Swiger <cswiger@widomaker.com>
- 10) Re: BA t.e. collection
by "Ed Zeranski" <ezeran@concentric.net>
- 11) Re: BBOD report
by wb3fau@att.net
- 12) Re: Voice, Range Both Filter Continued
by "Marty Reynolds' debris field" <polepeeg@ba-watch.org>
- 13) Re: Voice, Range Both Filter Continued
by "Ken Hickman" <n5cm@rtconline.com>
- 14) CE Parts Rigs.
by Roy Morgan <roy.morgan@nist.gov>
- 15) Re: BBOD report
by "Arden Allen" <gumbear@pacbell.net>
- 16) Re: BBOD report
by "Arden Allen" <gumbear@pacbell.net>
- 17) Re: Voice, Range Both Filter Continued
by "Nick England" <nick@3rdtech.com>

- 18) R-390A Mod?
by Mike Hardie <mike46@shaw.ca>
- 19) ADMINISTRIVIA: Posting Admin Requests
by listown@nanniandjack.com (Mail List Owner)
- 20) Re: BBOD report
by Al Klase <skywaves@webex.net>
- 21) Looking for Hallicrafters S-120 Dial Glass
by "Joe Watson" <wwatson5@cox.net>

Message-ID: <71B659EFA1EAD311932700508B6460B907054799@mailman.isoft.intranet.gr>
From: "Sifakis George (georgios.sifakis@intracom.gr)"
<georgios.sifakis@intracom.gr>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Modern tubes, old tube testers
Date: Tue, 27 Jul 2004 15:50:58 +0300
MIME-Version: 1.0
Content-Type: text/plain

I was wondering if anyone has managed to test a 6DJ8 tube on an I-1777B tester. If so, I would appreciate a copy of the settings.

Regards,
George Sifakis

Date: Tue, 27 Jul 2004 11:51:44 -0700 (MST)
From: Richard Loken <richardlo@admin.athabascau.ca>
Subject: Re: "Festoon" lamps??
To: Old Tube Radios <boatanchors@theporch.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Message-id: <Pine.PMDF.3.95.1040727111147.541166748G-100000@admin.athabascau.ca>
MIME-version: 1.0
Content-type: TEXT/PLAIN; charset=US-ASCII

Some microscopes use a similar bulb. Try contacting a scientific supply company like Fisher Scientific or Edmund Scientific.

McIntosh used them in some of their tube gear, they were the single best way to light up a slide rule dial but nobody but McIntosh seem intelligent enough to figure that out. My MX110 came with a certain size of festoon bulb and later McIntosh sent out a smaller bulb with two brass adaptors when the original became unobtainable.

--

Richard Loken VE6BSV, Systems Programmer - VMS
Athabasca University

Athabasca, Alberta Canada
** richardlo@admin.athabascau.ca **

Subject: Re: "Festoon" lamps??
To: Old Tube Radios <boatanchors@theporch.com>
Date: Tue, 27 Jul 2004 14:06:15 -0500 (CDT)
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=US-ASCII
Message-Id: <20040727190615.0D4531AC91@cushy.ece.northwestern.edu>
From: flasch@cushy.ece.northwestern.edu (Norm Flasch)

MCM Electronics carries fuse type lamps in 6, 8 and 12 volt varieties.
go to www.mcmelectronics.com (you will be bounced to Newark since MCM
is now an InOne Co.) Look for PN 25-080, 25-090 and 25-100.

I purchased some for an early Marantz sandstate receiver.

> Some microscopes use a similar bulb. Try contacting a scientific supply
> company like Fisher Scientific or Edmund Scientific.
>
> McIntosh used them in some of their tube gear, they were the single best way to
> light up a slide rule dial but nobody but McIntosh seem intelligent enough to
> figure that out. My MX110 came with a certain size of festoon bulb and later
> McIntosh sent out a smaller bulb with two brass adaptors when the original
> became unobtainable.
>
> --
> Richard Loken VE6BSV, Systems Programmer - VMS
> Athabasca University
> Athabasca, Alberta Canada
> ** richardlo@admin.athabascau.ca **
>

--
Norm Flasch
ECE Teaching Labs Manager
Northwestern University
Evanston, Illinois
847-467-4387

Message-ID: <003801c4742b\$b53ac580\$46e47443@KB6NAX>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: "Festoon" lamps??
Date: Tue, 27 Jul 2004 15:47:29 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I've beaten that one pretty much to death looking for replacement lamps for Fisher hi-fi's. Now I buy the 8 volt "fuse" lamps and because they are too short I take the end caps off and solder the bulb leads to the clips that hold the longer original lamp. Fuse lamps are available from service trade dealers. GC Electronics has a part number but I don't have it handy.

Arden Allen
KB6NAX

From: "JAMES HANLON" <knjhanlon@msn.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: BBOD report
Date: Tue, 27 Jul 2004 18:29:42 -0600
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Message-ID: <BAY4-DAV29geDKvPEkG00010b6b@hotmail.com>

Al,

I would suggest you replace all of the Black Beauty bypass caps in the SP-600 before you use it very much. A "friend" sold me his SP-600 once, saying it worked only the signals were weak and he was sure I could fix it. The problem was, of course, a shorted bypass cap and an open decoupling resistor. After I fixed that one the receiver worked fine for a little while until the next one blew, and so on. The more interesting ones are the bypass caps inside of the IF transformer cans, or were those just the decoupling resistors? I've forgotten now, thankfully. Also there's that second conversion can that's sitting like a wart on the side of a wall over by the power supply. There's a bypass cap inside of that can too. As I recall I had to drop the power supply sub-chassis to get the darn thing off and open.

I like servicing National receivers much better. They were built so that you could get at all of the parts without performing Herculean tasks.

73,

Jim, W8KGI

From: "JAMES HANLON" <knjhanlon@msn.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Voice, Range Both Filter Continued
Date: Tue, 27 Jul 2004 18:35:41 -0600
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Message-ID: <BAY4-DAV210scL9NtDE00003737@hotmail.com>

Mike,

If you try out the filter with an audio generator, expect to find a notch in the Voice response at the Range frequency. The original use for the filters was to allow listening either to just the Range signal or to listen to everything else without hearing the Range signal. My FL-8 has a three position switch with Range, Voice, and Both positions.

73,

Jim, W8KGI

Message-ID: <045f01c4743fb766b620\$3201a8c0@w8ut>
From: "Al Parker" <anchor@ec.rr.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: BBOD report
Date: Tue, 27 Jul 2004 21:10:47 -0400
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Jim,

I sure didn't mean to imply that only part of the job should be done. I hope that the fact that all 20 BBOD's in the RF deck alone were bad would point out the need to do them all. (I've got almost all changed now, and haven't found a good one yet.) Like you, I also tried using one of my first SP-600's for a while without doing the job - caps failed every week or so, after 2 or 3 I did them all. I have never powered up this particular receiver, so don't know how bad it was. I've owned it for 2-3 yrs (not sure at the moment when/where it came from, my wife asked me that tonite, but I do keep records). I do subscribe to the method of doing sections at a time & trying it out, but only if it was working somewhat to start with, and not endangering itself.

I've owned about 10 SP-600's, have 4 presently, and have worked on

another half dozen or so for other folks. They're neat old bandcruisers, I hope I'll finish & keep one permanently someday soon, but it seems like somebody always comes along lusting after one. I've got some of the ones I've done posted in detail on my own website, and I'm the keeper of The Hammarlund Historian website, where we have the nice article by Ray Vasek that was in HSN a while back. I'm presently getting some pix inserted in it for more detailed viewing. Les Locklear is the Historian.

73,

Al, W8UT

New Bern, NC

BoatAnchors appreciated here

<http://www.thecompendium.net/radio/>

<http://www.hammarlund.info>

----- Original Message -----

From: "JAMES HANLON" <knjhanlon@msn.com>

To: "Old Tube Radios" <boatanchors@theporch.com>; "Al Parker" <anchor@ec.rr.com>

Sent: Tuesday, July 27, 2004 8:29 PM

Subject: Re: BBOD report

> Al,

>

> I would suggest you replace all of the Black Beauty bypass caps in the

> SP-600 before you use it very much.

>snip<

> I like servicing National receivers much better. They were built so that

> you could get at all of the parts without performing Herculean tasks.

>

> 73,

>

> Jim, W8KGI

>

Message-ID: <41070721.2090706@webex.net>

Date: Tue, 27 Jul 2004 21:53:37 -0400

From: Al Klase <skywaves@webex.net>

MIME-Version: 1.0

To: Old Tube Radios <boatanchors@theporch.com>

CC: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: BBOD report

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Transfer-Encoding: 7bit

Anchorites,

I'm going to chime in on this one as well. The tubular paper cap have got to go if the radio is going to perform properly, and not do damage to itself like burned screen resistors. There's a couple of pertinent articles on my webpage.

The SP-600 manual has explicit directions for removing the RF deck. The caps are much easier to deal with if you follow this method:

http://www.webex.net/~skywaves/commrx/Maintenance/Comprepl/component_replacement.htm

Failure to replace the caps will almost surely leave you with AVC problems:

<http://www.webex.net/~skywaves/commrx/Maintenance/agc.htm>

If you really get into it, the audio section can be improved to make the radio sound more like an SP-200:

http://www.webex.net/~skywaves/commrx/Hammarlund/SP-600/SP-600_Audio.html

Hope that helps a little,
Al

JAMES HANLON wrote:

> Al,
>
> I would suggest you replace all of the Black Beauty bypass caps in the
> SP-600 before you use it very much.....

--

Al Klase - N3FRQ
skywaves@webex.net
Flemington, NJ 08822
Web Page: <http://www.webex.net/~skywaves/home.htm>

Message-Id: <5.2.1.1.1.20040727214943.01c2c2f0@wilma.widomaker.com>
Date: Tue, 27 Jul 2004 22:17:00 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: Chuck Swiger <cswiger@widomaker.com>
Subject: Re: BBOD report
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

>>I would suggest you replace all of the Black Beauty bypass caps in the
>>SP-600 before you use it very much.....

Same story here - finally got around to playing with a Barker & Williamson distortion analyzer, model 400.

About 4 or 5 bbod were snipped out and replaced with orange drops. Next is how to test and verify?

Using a manual someone here supplied, it seemed to null out a fundamental from a signal generator

(the matching B&W model 200) just fine. Theory is you remove the fundamental and any energy left

are distortion and harmonics. Next we feed it a triangle wave, null out the fundamental and look at the output. Sure enough, it looks exactly like that predicted by the formula for a triangle w/o a fundamental.

$$f_{out} = -\sin(3wt)/9 + \sin(5wt)/25 - \sin(7wt)/49 + \sin(9wt)/81 \dots$$
$$fundamental = \sin(wt)$$

one of the few time I've managed to get the trace on the scope to match the calculations.

--Chuck
kb4new

Message-ID: <008101c4744c\$6c264380\$3a82fea9@g5p3m4>
From: "Ed Zeranski" <ezeran@concentric.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: BA t.e. collection
Date: Tue, 27 Jul 2004 19:41:43 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

...but I do have a Meas. 65-B Good unit, great/accurate attenuator!

>>The Singer-Gertsch Gertsch had some neat freq meters similar to LM

From: wb3fau@att.net
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "Al Parker" <anchor@ec.rr.com>, Old Tube Radios <boatanchors@theporch.com>
Subject: Re: BBOD report
Date: Wed, 28 Jul 2004 06:01:29 +0000
Message-Id:

<072820040601.19944.41074137000A69E400004DE821604666489A0E00CC0D99@att.net>

MIME-Version: 1.0

Content-Type: multipart/alternative;

boundary="NextPart_Webmail_9m3u9jl4l_19944_1090994489_0"

--NextPart_Webmail_9m3u9jl4l_19944_1090994489_0

Content-Type: text/plain

Content-Transfer-Encoding: 8bit

the sp600 is a nice BA RX, but as someone mentioned, my preferences are with National.

Presently my favorites are NC-100s and other similar variations of this model. Russ.

----- Original message from "Al Parker" : -----

> Hi Jim,
> I sure didn't mean to imply that only part of the job should be done.
> I hope that the fact that all 20 BBOD's in the RF deck alone were bad
> would point out the need to do them all. (I've got almost all changed
> now, and haven't found a good one yet.) Like you, I also tried using one
> of my first SP-600's for a while without doing the job - caps failed every
> week or so, after 2 or 3 I did them all. I have never powered up this
> particular receiver, so don't know how bad it was. I've owned it for 2-3
> yrs (not sure at the moment when/where it came from, my wife asked me that
> tonite, but I do keep records). I do subscribe to the method of doing
> sections at a time & trying it out, but only if it was working somewhat to
> start with, and not endangering itself.
> I've owned about 10 SP-600's, have 4 presently, and have worked on
> another half dozen or so for other folks. They're neat old bandcruisers,
> I hope I'll finish & keep one permanently someday soon, but it seems like
> somebody always comes along lusting after one. I've got some of the ones
> I've done posted in detail on my own website, and I'm the keeper of The
> Hammarlund Historian website, where we have the nice article by Ray Vasek
> that was in HSN a while back. I'm presently getting some pix inserted in
> it for more detailed viewing. Les Locklear is the Historian.

> 73,

> Al, W8UT

> New Bern, NC

> BoatAnchors appreciated here

> <http://www.thecompendium.net/radio/>

> <http://www.hammarlund.info>

>

>

> ----- Original Message -----

> From: "JAMES HANLON"

> To: "Old Tube Radios" ; "Al Parker"

>

> Sent: Tuesday, July 27, 2004 8:29 PM
> Subject: Re: BBOD report
>
> > Al,
> >
> > I would suggest you replace all of the Black Beauty bypass caps in the
> > SP-600 before you use it very much.
> >snip<
> > I like servicing National receivers much better. They were built so
> that
> > you could get at all of the parts without performing Herculean tasks.
> >
> > 73,
> >
> > Jim, W8KGI
> >
>

--NextPart_Webmail_9m3u9jl4l_19944_1090994489_0

Content-Type: text/html

Content-Transfer-Encoding: 8bit

<html>

<!-- BEGIN WEBMAIL STATIONERY -->

<head><style type='text/css'>

p {

margin: 0px;

}

</style></head>

<body>

<!-- WEBMAIL STATIONERY noneset -->

<P>the sp600 is a nice BA RX, but as someone mentioned, my preferences are with National.</P>

<P>Presently my favorites are NC-100s and other similar variations of this model. Russ.
</P>

<BLOCKQUOTE style="PADDING-LEFT: 5px; MARGIN-LEFT: 5px; BORDER-LEFT: #1010ff 2px solid">----- Original message from "Al Parker" <ANCHOR@EC.RR.COM>:

> Hi Jim,
> I sure didn't mean to imply that only part of the job should be done.
> I hope that the fact that all 20 BBOD's in the RF deck alone were bad
> would point out the need to do them all. (I've got almost all changed
> now, and haven't found a good one yet.) Like you, I also tried using one
> of my first SP-600's for a while without doing the job - caps failed every
> week or so, after 2 or 3 I did them all. I have never powered up this
> particular receiver, so don't know how bad it was. I've owned it for 2-3
> yrs (not sure at the moment when/where it came from, my wife asked me that
> tonite, but I do keep records). I do subscribe to the method of doing
> sections at a time & trying it out, but only if it was working somewhat to
> start with, and not endangering itself.
> I've owned about 10 SP-600's, have 4 presently, and have worked on

> another half dozen or so for other folks. They're neat old bandcruisers,

> I hope I'll finish & keep one permanently someday soon, but it seems
like
> somebody always comes along lusting after one. I've got some of the
ones
> I've done posted in detail on my own website, and I'm the keeper of
The
> Hammarlund Historian website, where we have the nice article by Ray
Vasek
> that was in HSN a while back. I'm presently getting some pix
inserted in
> it for more detailed viewing. Les Locklear is the Historian.

> 73,
> Al, W8UT
> New Bern, NC
> BoatAnchors
appreciated here
> <http://www.thecompendium.net/radio/>
> <http://www.hammarlund.info>
>
> ----- Original Message -----

> From: "JAMES HANLON" <KNJHANLON@MSN.COM>
> To: "Old Tube Radios"
<BOATANCHORS@THEPORCH.COM>; "Al Parker"

>> <ANCHOR@EC.RR.COM>
> Sent: Tuesday, July 27, 2004 8:29 PM
>
Subject: Re: BBOD report
>
> > Al,
> >
> > I
would suggest you replace all of the Black Beauty bypass caps in the
> >
SP-600 before you use it very much.
> >&snip<
> > I like
servicing National receivers much better. They were built so
> that

> > you could get at all of the parts without performing Herculean
tasks.
> >
> > 73,
> >
> > Jim, W8KGI

> >
> </BLOCKQUOTE>
<!-- END WEBMAIL STATIONERY -->

</body>
</html>

--NextPart_Webmail_9m3u9jl4l_19944_1090994489_0--

Message-ID: <12366.24.30.83.206.1091020172.squirrel@fracas.netboobie.org>
Date: Wed, 28 Jul 2004 09:09:32 -0400 (EDT)
Subject: Re: Voice, Range Both Filter Continued
From: "Marty Reynolds' debris field" <polepeeg@ba-watch.org>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: boatanchors@theporch.com
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

> Mike,
>
> If you try out the filter with an audio generator, expect to find a notch
> in the Voice response at the Range frequency.

WOW! Never knew that.

Ever read how radio ranges worked?

If not, draw a couple of morse "As" horizontally as short and long dashes. Then draw a offset line of "Ns" beneath. The transmitter ran non-stop & a antenna relay switched properly between quad-tower-phasers for left-side Ns & right-side As. Or a continuous received tone if you were "on the beam"

I credit Clete Whitaker for this explanation.

I also distinctly remember the Lunken radio range station in Indian Hill and heard it would give voice data - which I never heard. That would sure explain your disclosure

Marty

Message-ID: <000e01c474ac\$49b96420\$414e9844@dell4100>
From: "Ken Hickman" <n5cm@rtconline.com>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: <boatanchors@theporch.com>
Subject: Re: Voice, Range Both Filter Continued
Date: Wed, 28 Jul 2004 09:07:58 -0500
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Mike, Marty & Gang,

Some of the Low Frequency Radio Range Stations had "Voice" feature but some did not....It depended whether Air Traffic Control needed to communicate with the pilot (during L.F. Range instrument approaches)....A Range Station way out in the hinterland without an airport anywhere in the vicinity usually did not need voice comm with Air Traffic Control....
When the pilot is inbound on final approach, he needs to hear the tone (1020 cycles) to listen for the "cone of silence" telling him he is directly over the Range Station....
>From there, he takes up a compass heading which leads him towards the runway....
After descending (at a standard rate), if he does not sight the runway or lights by the time he reaches the "minimum altitude" for that particular airport, he must apply power and climb and contact Approach Control for instructions....
The reason for a dip in the Voice filter at 1020 cycles is to make the

verbal
instructions from Air Traffic Control more clear....The co-pilot may be the
one
that is monitoring "Voice" but he needs to hear it clearly without that 1020
cycle
tone interfering....
Hope this helps to understand why the filter is designed the way it is....
FWIW,

Ken....N5CM....

Message-Id: <5.1.1.5.2.20040728122202.025b26b0@mailserver.nist.gov>
Date: Wed, 28 Jul 2004 12:23:13 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: Roy Morgan <roy.morgan@nist.gov>
Subject: CE Parts Rigs.
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 01:30 AM 7/27/2004 -0500, you wrote:

>Anyone got some Central Electronics stuff laying around - any condition is
>fine. I've got a couple parts units and want to get ready for my winter
>projects and would like a 100V, 200V or 600L to putts with !

Bob,

I have a friend nearby who restores those - and gets \$2000 and up for them.
If you find more parts rigs than you need, let me know. .He buys that kind
of thing.

Roy

- Roy Morgan, K1LKY since 1959 - Keep 'em Glowing!
7130 Panorama Drive, Derwood MD 20855
Home: 301-330-8828 Work: Voice: 301-975-3254, Fax: 301-948-6213
roy.morgan@nist.gov --

Message-ID: <000d01c474c2\$026bc070\$45e47443@KB6NAX>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: BBOD report
Date: Wed, 28 Jul 2004 09:43:23 -0700

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

In restoring old receivers one can spend a lot of time on feckless activities. Not ALL caps need replacing. A cap with one megohm of leakage resistance would be a disaster waiting to happen as a screen bypass but the same leaky cap in parallel with a 470 ohm cathode resistor with only a few volts across it will never be a problem. Of course never will at least last until closing time on eSwamp....

Arden Allen
KB6NAX

Message-ID: <002001c474c3\$333c96b0\$45e47443@KB6NAX>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "Old Tube Radios" <boatanchors@theporch.com>
Subject: Re: BBOD report
Date: Wed, 28 Jul 2004 09:51:54 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> If you really get into it, the audio section can be improved
> to make the radio sound more like an SP-200:
> http://www.webex.net/~skywaves/commrx/Hammarlund/SP-600/SP-600_Audio.html

Unfortunately he's missed one of the major audio distortion causes, the 6BA6 driving the detector. That tube needs to be changed to a 6AU6 and the fixed bias replaced with unbypassed cathode resistor bias. Return the grid resistor to ground and set the value of cathode resistance to obtain approximately the same voltage gain, about 360 ohms if memory serves me.

Arden Allen
KB6NAX

Message-ID: <022101c474c3\$b8548c90\$fd0212ac@3rdtech.com>
From: "Nick England" <nick@3rdtech.com>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: <boatanchors@theporch.com>
Subject: Re: Voice, Range Both Filter Continued
Date: Wed, 28 Jul 2004 12:55:43 -0400
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Back in my novice days when none of us kids could afford a rcvr with much selectivity, an FL-8 filter was a cheap common accessory. Use "range" to peak a particular signal or "voice" to notch out an interfering one. Yeah I know it was in the audio chain where it is too late to do much good, but older hams would give them to us younger guys.

And it looked like something out of a B-17, which made it an extra cool gadget!

Nick England
3rdTech Inc www.3rdtech.com
(w) 919-929-1903 (fax) 919-929-2098

Date: Wed, 28 Jul 2004 10:55:59 -0700
From: Mike Hardie <mike46@shaw.ca>
Subject: R-390A Mod?
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <002e01c474cc\$253e3240\$6501a8c0@vn.shawcable.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7bit

An R-390A that has been sitting in the "back forty" has made it's way to the bench and there's an interesting mod. There's a piece of telephone wire, the kind that is normally found inside a house wall (cream colored outer, 4 conductor - red, yellow, blue and black - very small gauge) exiting through a grommet in the front of the IF module, running down through the horizontal chassis plate, then connecting to a multi pole ceramic rotary switch that's located where the BFO switch would normally be. The front panel is still labeled "BFO, OFF, ON". I haven't opened the IF module yet.

On the front panel beside the BFO switch is a plastic envelope containing a card, there's four lines on information on the card, the first one reads "Weather Services (storm and hurricane info) 5.925 8.140 10.950 13.625KHz Shift 850Hz Speed 100 WPM.

Other than a hole in the front of the IF module there doesn't appear to be anything irreversible. A guess is the IF has been modified for RTTY.

- 1) Has anyone run across anything like this?
- 2) Does anyone have a spare BFO switch?

Mike
VE7MMH

Message-Id: <200407281815.i6SIF009008537@osr506.nanniandjack.com>
From: listown@nanniandjack.com (Mail List Owner)
To: Old Tube Radios <boatanchors@theporch.com>
Subject: ADMINISTRIVIA: Posting Admin Requests
Date: Wed, 28 Jul 2004 11:15:00 -0700 (PDT)

Gang-

Please accept this periodic posting as it is intended:
A suggestion that will help everyone on the list...

If there is a problem with your email, i.e., the list suddenly stops coming to you, or if you have problems with someone else's mail, PLEASE address any questions to, and seek help from:

listown@nanniandjack.com

There is really no one on the list who can help you with a problem, and if I don't happen to see your post, nothing will happen, except you may irritate the other list members... needlessly.

This is *especially* true of the "XXXX YYYYY your mail is bouncing, please send me a good address"

If your mail to this person is bouncing, in all likelihood, either you have the address a bit wrong, or s/he isn't receiving mail from ANYWHERE *especially* not from the list, which is delivered as "Bulk!"

PLEASE treat the list as a symposium.

In such an environment, with many folks attending who have paid to be here, it is unlikely you would take up the symposium's resources to solve an individual problem with your seating...

So, if you encounter a problem, PLEASE remember to send your questions to me, the one person who can help, at:

listown@nanniandjack.com

Thanks for your attention

--

73

Jack, W4KH/Mobile - - - BoatAnchor Mailing List Owner - - -

listown@nanniandjack.com - "Plus ca change, plus c'est la meme chose"

"Il n'y a que les idiots qui ne changent jamais d'idee"

Wed Jul 28 11:15:00 PDT 2004

Message-ID: <4107FCFC.6050106@webex.net>
Date: Wed, 28 Jul 2004 15:22:36 -0400
From: Al Klase <skywaves@webex.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: BBOD report
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Arden,

I'll have to check that out the next time the set's on the bench. I wonder what made them do it the hard way in the first place. Of course, in some circles, negative feedback is an under-appreciated phenomena.

Al

Arden Allen wrote:

> Unfortunately he's missed one of the major audio distortion causes, the 6BA6
> driving the detector. That tube needs to be changed to a 6AU6 and the fixed
> bias replaced with unbypassed cathode resistor bias. Return the grid
> resistor to ground and set the value of cathode resistance to obtain
> approximately the same voltage gain, about 360 ohms if memory serves me.

--
Al Klase - N3FRQ
skywaves@webex.net
Flemington, NJ 08822
Web Page: <http://www.webex.net/~skywaves/home.htm>

Message-ID: <000e01c474f6\$38607980\$9000a8c0@study>
From: "Joe Watson" <wwatson5@cox.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Looking for Hallicrafters S-120 Dial Glass
Date: Wed, 28 Jul 2004 17:57:12 -0500
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="-----_NextPart_000_000B_01C474CC.4F1CBB90"

This is a multi-part message in MIME format.

-----_NextPart_000_000B_01C474CC.4F1CBB90

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Anyone have a Hallicrafters S-120 dial glass you would sell me?

Joe
W5WBR

-----=_NextPart_000_000B_01C474CC.4F1CBB90
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

* * * * *
* ---REMAINDER OF MESSAGE TRUNCATED--- *
* This post contains a forbidden message format *
* (such as an attached file, a v-card, HTML formatting) *
* Mail Lists at theporch.com only accept PLAIN TEXT *
* If your postings display this message your mail program *
* is not set to send PLAIN TEXT ONLY and needs adjusting *
* * * * *

-----=_NextPart_000_000B_01C474CC.4F1CBB90--

End of BOATANCHORS Digest 3680
